

US EPA ARCHIVE DOCUMENT

Certified Copy

In the Matter Of:
EPA PUBLIC AVAILABILITY MEETING

MEETING

October 25, 2012

30245908



Superfund



ESQUIRE
SOLUTIONS

800.211.DEPO (3376)
EsquireSolutions.com

1 EPA PUBLIC AVAILABILITY MEETING

2 CHICAGO HEIGHTS BOULEVARD SITE

3
4 held at the First Baptist Church of Elmwood Park

5 1452 Dielman Road

6 St. Louis County, Missouri 63132

7 7:00 p.m.

8 OCTOBER 25, 2012

9
10
11
12
13
14
15
16
17
18 Reported by: Celena D. Moulton, RPR, CCR, CSR

1 MS. YOUNG: Good evening. My name is
2 Belinda Young. I'm with the Environmental Protection
3 Agency in, now, Lenexa, Kansas. I'm a Community
4 Involvement Coordinator in the Office of Public Affairs.
5 So I'm working with the public on this project.

6 If you received a flyer announcing this
7 meeting, my name is listed on the contact portion on the
8 end. It's listed for general information if you want to
9 ask questions.

10 To move quickly through this portion, I
11 would like to recognize any elected officials or their
12 representatives that may be in the audience this
13 evening. If not, we'll move on.

14 We can recognize that Dr. Pruitt is here
15 with the NAACP, so he's been getting information. We
16 have representatives here from EPA, as I said.

17 We also have representatives from the
18 Missouri Department of Natural Resources, the Missouri
19 Department of Health and Senior Services and the Agency
20 For Toxic Substances and Disease Registry. They have
21 information that will be available through our public
22 meeting this evening.

23 Comments provided at this evening's meeting
24 will be documented. We have a court reporter. EPA
25 began a 30-day public comment period that runs from

1 October 18th through November 19th. The comment period
2 is related to an agreement between EPA and PerkinElmer,
3 Incorporated to address contamination in this area.

4 Information on that agreement can be found
5 in several repositories in the area: The St. Louis
6 County Library, the Mid-County Library, Indian Trails
7 Library, and at the EPA Region 7 website. And we have
8 information in our records center.

9 The facilitator for this evening will be
10 Shawn Grindstaff. We're going to have a facilitated
11 meeting. As I said, your comments will be documented.

12 The presenters for this evening will be
13 David Hoefer, who is our Regional Counsel at EPA. He
14 will be talking about the legal agreement. Then we'll
15 have Dan Gravatt. He'll give us a status update for the
16 site and the next steps.

17 We ask that you hold your comments and
18 questions until the presentations are ended. If you've
19 got some papers, you can take notes as you move through
20 the presentations. If you need paper, we have paper out
21 at the table.

22 If you didn't get a chance to sign in on
23 those blue cards, we don't want to overlook anybody. We
24 want to make sure that we have everybody on our mailing
25 list. We want to include everybody.

1 The meeting this evening is part of our
2 community involvement process. We want you to know the
3 EPA cares. The EPA is here to keep you well-informed.
4 We encourage and enable the community to get involved.
5 We listen to your comments.

6 Other communities in Region 7 have gotten
7 involved, and sometimes the community decides to form a
8 community advisory group. That group serves as a
9 liaison for comments and concerns that the community has
10 with EPA. We want to make sure there are additional
11 processes that can help you to get involved.

12 At this point, I'll turn the mic over to
13 Shawn Grindstaff, our facilitator for this evening.

14 MR. GRINDSTAFF: Thank you very much. Good
15 evening.

16 I wanted to tell you a little bit about
17 myself first so that I can explain the role that I have
18 in the meeting tonight.

19 Facilitator, what it really means tonight
20 is that we want to be able to get through the meeting
21 and accomplish several different things. We're kind of
22 rolling several things into one tonight. So time, it
23 ticks away very fast for all of us, so I want to make
24 sure we move from one thing to the other.

25 Now, the things that we're going to do

1 tonight, the first part is the presentations that you
2 will hear. The reason is, under federal law at this
3 point, under the Resource Conservation and Recovery Act,
4 which people called RCRA, there is a piece of that law
5 that says at this moment of the proposed settlement of
6 this order, that we speak to the public about this and
7 that you have this time period to comment.

8 That's a very formal process. That's why
9 we have the court reporter here. And she will be taking
10 down every word. We need to get through that. That's
11 why I ask again, like Belinda said, you can hold all
12 your questions and comments until the presentations are
13 over.

14 Then Belinda and I will have two mics. I
15 know there are several people. Especially in this
16 church, you might not be able to move about. We will
17 bring the mic to you. At that point, we will go to
18 questions and comments.

19 Then after that, because there's another
20 portion of the community that wants to speak privately
21 and confidentially, we have at the end of the meeting a
22 public availability session. We'll have broken-up areas
23 with different people in different places. So time will
24 go by quickly.

25 So that will be my role is to keep things

1 moving quickly. David and Dan are going to go ahead and
2 make the presentations. Again, if you bear with me with
3 our different pieces of this, it will help.

4 I've been doing meetings like this, lots of
5 different meetings, for about 20 years. I've learned a
6 lot of hard lessons.

7 The thing I've learned the most is that
8 it's important that everybody in the community,
9 everybody has a chance to talk in their own way. Some
10 want to talk privately. Some want to talk in front of
11 others. We're going to try to meet everybody's needs
12 tonight.

13 We'll go ahead and hand it over to David.
14 Thank you.

15 MR. HOEFER: Good evening. My name is
16 David Hoefer. I'm an attorney with the Environmental
17 Protection Agency. I've worked with the company known
18 as PerkinElmer to come up with a settlement agreement.
19 That is what I'm going to talk about.

20 My presentation is very brief. We have
21 this -- it's called an Administrative Settlement
22 Agreement and Order on Consent. It's on our website.
23 It's publicly available. The primary purpose of the
24 meeting itself is to discuss, get comments on this
25 order.

1 We have a legal obligation when we have an
2 imminent order of this nature to put it out for public
3 comment, to get comments whether there's anything
4 inappropriate, improper or inadequate. That's my role
5 tonight.

6 I worked with PerkinElmer on this. This is
7 a legal agreement. As Shawn referenced, there's a
8 couple statutory authorities that we use. One that you
9 may have heard of before that is a fairly common statute
10 known as a superfund; and that's the Comprehensive
11 Environmental Response Compensation and Liability Act.
12 The other one is RCRA, Resource Conservation and
13 Recovery Act.

14 So there's legal authorities that we use
15 when we negotiate this order. And those are authorities
16 that Congress made to us for resolutions like we have in
17 this community.

18 We did this in very short order. Dan, I
19 think, will discuss how long the EPA has been involved.
20 It's not been very long.

21 When we got involved, I approached
22 PerkinElmer, and we talked about, "We have a problem
23 here that needs to be addressed." So in very short
24 order, we negotiated this order. It was a very short
25 period of time. In a very short period of time, we

1 negotiated this order.

2 I sent this to PerkinElmer for negotiation
3 on September 14th. We provided two weeks for
4 negotiations on this. I worked with their attorneys.
5 It was pretty intense during that two-week period to
6 come to this agreement. They signed it on October 2nd.

7 It's not effective until EPA signs it. EPA
8 will not sign this until it's gone through public
9 comment. The public comment period runs from last week,
10 I believe it was October 18th through November 19th.

11 So once we get through the public comment
12 period, we will evaluate the comments that we receive on
13 this to see if this is still something that we want to
14 enter into with PerkinElmer, or do we want to have it
15 modified, et cetera.

16 That is one of our purposes tonight is to
17 find out what the community thinks about this agreement.

18 This is a fairly technical document. It's
19 a very typical document for these types of settlements.
20 It contains a lot of boilerplate language in here that
21 is standard findings of fact. It gives the history of
22 the site, history of PerkinElmer's involvement, our
23 involvement, et cetera.

24 Probably the most-relevant portion of this
25 for the community should be the "Work" section. There's

1 a portion of this that details what work PerkinElmer
2 will be performing at this site.

3 Just to be clear here, this is a legal
4 agreement, legally-binding agreement. And pursuant to
5 this, PerkinElmer is agreeing to do certain activities
6 in your community to ascertain the extent of the
7 contamination and to address the contamination. So it's
8 a very comprehensive agreement.

9 Dan will address the work requirements. We
10 have phased work that's going to be performed under this
11 order. It's quite a bit of work. It's a very
12 comprehensive order, very aggressive order.

13 This becomes enforceable upon EPA's
14 signature. Again, we won't sign it until the public
15 comment period is over. So it will be sometime around
16 Thanksgiving before we sign this and it actually becomes
17 operable.

18 This is, again, a legally-enforceable
19 agreement. We have penalties that PerkinElmer has
20 agreed to. There are also statutory penalties. If we
21 need to, we can enforce this in federal court. That is
22 both with regard to penalties and with relief to make
23 sure the work is performed.

24 Let me say, PerkinElmer -- I don't know if
25 you know much about PerkinElmer. We engaged them early

1 in September on this issue. We've worked very
2 aggressively with them, had very productive
3 negotiations. And we did this in two weeks, which
4 frankly is the speed of light, from our perspective. So
5 we had a very good experience negotiating this.

6 Probably the most relevant or most
7 interesting aspect of this is probably going to be the
8 work.

9 We have Dan Gravatt and John Frey. And Dan
10 is going to explain in some detail the work requirements
11 of this order. And at the conclusion of this, we'll be
12 available to take questions.

13 MR. GRINDSTAFF: Dan, if I could interrupt
14 before we start, there were a lot of people who just
15 walked in. I wanted to re-explain the format tonight so
16 that we can get through the meeting and everybody can be
17 home at a reasonable hour.

18 And that is this: Under the law, under
19 something we call RCRA, this meeting tonight is a little
20 different because we've got different pieces. So what
21 we're doing right now is hearing two presentations on
22 the order settlement part of it.

23 Then after that's over, we'll have
24 questions and comments in which two of us will carry the
25 mic to each person.

1 Then after that, we have another group in
2 the community who wants to meet privately and
3 confidentiality. So what we'll do then is break up into
4 groups.

5 I'm going to be the facilitator to work
6 with you so we can get through each piece that we have
7 to do and that we'd like to do in the community. We
8 want everyone to have a chance to be able to speak to
9 someone.

10 So if everyone will bear with me, we'll
11 keep moving on. So David just spoke. And we're going
12 to have Dan speak in the second presentation.

13 MS. YOUNG: There was one thing I didn't
14 say. Number one, can everybody on this side of the room
15 see this projected image? Secondly, does anyone in the
16 room know of anyone in this room who is hearing
17 impaired? We do have a sign interpreter here and I
18 didn't say that. Okay. Thank you.

19 MR. GRAVATT: Good evening. My name is Dan
20 Gravatt. I'm with the Superfund Program in the EPA's
21 Office in Region 7 in what was Kansas City and now is
22 Lenexa, Kansas.

23 I'm the remedial project manager for the
24 site, kind of co-leading with John Frey, who is here,
25 also. He's an On-Scene Commander from EPA. We are

1 splitting the duties because this is going to be a very
2 long-term project. There are some things we are doing
3 right now to address immediate issues. There are going
4 to be some very long-term things that I will get into
5 here. They are all covered under the order that Dave
6 has been telling you about.

7 How EPA got involved in the site, MDNR had
8 been working on this for a number of years; but in July
9 and September of this year, it decided to refer
10 management of the site to us. That was something that
11 we agreed on and agreed to do it pretty rapidly. So
12 we're going to keep them involved in the process. But
13 the order that we're signing is between EPA and
14 PerkinElmer.

15 Since that referral, we've had five vapor
16 intrusion mitigation systems installed out of the
17 neighborhoods where we found the trichloroethylene or
18 TCE vapors in their homes above the health-based risk
19 level. That's already been done. It was done back in
20 September.

21 Also, as has been referred to, as David
22 said, we've been through a very aggressive negotiation
23 schedule with PerkinElmer to get this order in front of
24 you folks for your public comments.

25 The public comment period began a few days

1 ago and goes on for 30 days. What was the end date?

2 The 19th?

3 MS. YOUNG: November 19th.

4 MR. GRAVATT: So there's still a couple of
5 weeks for you to read that and to comment. I hope you
6 do that. There's a lot of stuff that's technical, legal
7 language, boilerplate.

8 If you go to "Work to Be Performed",
9 there's a specific section that has that title, "Work to
10 Be Performed". And it has I believe seven tasks that I
11 will go through very generically here for your benefit.
12 So when you pull that document up and take a look at it,
13 you will be better able to understand what it is that
14 PerkinElmer is able to do at the site.

15 Before we go on, I want you to know that
16 this order covers, as far as we know, all the work that
17 is going to be necessary to clean up the site. It does
18 not say how long that is going to take, but it includes
19 all the steps that will be required to fully clean up
20 the site.

21 I know that some of you who were here on
22 our earlier meetings or met one-on-one with us, with
23 John or I earlier, will know this part of the story. I
24 want to give this again because there are some who are
25 new to the process.

1 The main issue is the contaminant within
2 the groundwater underneath some of the homes and
3 underneath the Missouri Metals Site is vapor intrusion.
4 The chemical that was spilled is a solvent called
5 trichloroethylene or TCE, and a related solvent called
6 tetrachloroethylene, or P as in Paul, PCE.

7 Those solvents were used at the Missouri
8 Metal site to clean parts that they were manufacturing.
9 Through a variety of reasons that we're not quite sure
10 of, these chemicals, these solvents, were released onto
11 the ground and migrated down into the shallow aquifer in
12 the neighborhood of 20, 30, 40 feet in the ground.

13 Once this solvent mixes with the
14 groundwater, it starts to dissolve. That dissolved
15 solvent in the groundwater starts to move with the
16 natural groundwater underneath the ground. As it moves,
17 in this case, it happens to move to the southeast under
18 part of the residences in the area.

19 Now, the groundwater that's beneath these
20 homes is not the water that you're drinking. I know
21 that's been a concern in the past. We've had fact
22 sheets to try to explain this better. The whole
23 neighborhood is on city water. The city's drinking
24 water does not come from the groundwater in this area.
25 There is no impact to the drinking water that you have

1 in this area.

2 The groundwater is contaminated. And the
3 way people can be exposed, in this case, with a solvent
4 like trichloroethylene or tetrachloroethylene, it tends
5 to evaporate out of the water. It's a little bit like
6 bubbles coming out of a bottle of soda. It's not
7 exactly that way, but it's a useful way to think about
8 it. The solvent wants to be a gas, so it comes out of
9 the water.

10 As gas, it tends to migrate through the
11 soil. It tends to migrate upward. If it migrates
12 upward and comes out in your lawn or something like
13 that, it's not a problem.

14 If it migrates up and comes into someone's
15 basement or the crawl space and can accumulate there, it
16 can reach levels that are above levels that we believe
17 are safe for human health.

18 We do have toxicologists here who are
19 available to chat with you about that in the informal
20 part of the presentation later. So vapor intrusion is a
21 process of this solvent coming out of groundwater,
22 migrating into people's homes and potentially reaching
23 levels that could affect human health.

24 As far as we know, that is the only way
25 that people in the neighborhood can be exposed to this

1 chemical. It's not in your drinking water.

2 So, as I said, the work in the order
3 requires PerkinElmer to investigate and clean up the
4 contamination and to address the vapor intrusion issues.

5 This picture here is a picture that I
6 pulled out of a site that I worked on a number of years
7 ago. It's an example of the kind of machinery that
8 would be used to install the monitoring well.

9 There are several different types of work
10 that we are going to need to do here to make sure that
11 we can understand exactly how far this contamination has
12 gone, and collect additional data that can help us
13 decide what type of technology to use and where to use
14 it.

15 And as Dave said, the work is going to be
16 done by PerkinElmer. They're paying for it. But it
17 will be done by EPA oversight. We will be reviewing
18 their work plans. We will be approving the reports for
19 the work that they do.

20 And to get back to how it will be described
21 in the order itself, the tasks that I referred to
22 earlier, the tasks are fairly generally described in the
23 order.

24 As we go forward, PerkinElmer will write
25 work plans that will describe exactly how they're going

1 to do each phase of the work. That's a document that
2 the EPA will review to make sure they're adequate and
3 will approve PerkinElmer to go through and do that work.
4 That will be for several phases that you will see for
5 the work in the order.

6 The first task that you'll see in the order
7 when you take a look at it is to deal with the immediate
8 risk to the households that have vapors in their homes
9 above that health-based risk level.

10 And that, as I said earlier, has already
11 been done. Out of the ten homes that were tested, five
12 of them did have levels that were above the health-based
13 risk standard. And those vapor intrusion systems that
14 you very generically described here have already been
15 installed.

16 It's basically a process of sucking the
17 contaminated vapors out from beneath the slab or the
18 bottom of your basement before they have a chance to get
19 into your home. They get sucked out and then ejected in
20 a pipe that's on the side of the house. They go out
21 into the ambient air where it's no longer in a
22 concentration that can be of risk to people.

23 So going forward, I know that there's been
24 a lot of questions about whether other homes will be
25 tested, whether other homes will have those systems

1 installed. The work that we're going to be doing in
2 this order under the earlier tasks will give us the
3 information we need to decide which homes are at risk
4 that will be tested. And that's not something that we
5 will be able to answer tonight.

6 I know a lot of you will want that answered
7 right away. We don't have all the information we need
8 yet to decide exactly whose homes need to be tested.

9 All right. This is an example of another
10 type of field instrument that will be used, potentially,
11 here. This collects soil samples. And this is
12 something that will be part of the supplemental
13 investigation work plan that's probably going to start
14 in late November.

15 This is a work plan that MDNR had put
16 together before the site was referred to EPA, but we're
17 using it because it includes a lot of useful work that
18 we need to do. It helps us move forward more quickly.

19 Coming up in November, we're going to have
20 PerkinElmer out here collecting soil and samples.
21 They're going to be installing monitoring wells in the
22 neighborhood. These are permanent monitoring wells that
23 will be sampled from time to time.

24 We will be using that data when we get it
25 on where the contamination is in the groundwater and

1 where it is in the soil and in the gas in the soil to
2 help us determine what other homes might be at risk.

3 At that point, any homes that might be
4 identified that might be at risk, the owners would be
5 contacted to arrange sampling. Again, this will all be
6 subject to EPA oversight and review and approval to make
7 sure that our toxicologists, geologists, our scientists
8 review it to make sure that we're taking the appropriate
9 actions.

10 Once we have that data, we will need to go
11 back and work more on the Missouri Metals facility
12 itself, the industrial facility north of the road there.
13 Because as much work as we can do on addressing the
14 groundwater plume, there is source material that will
15 continue to contaminate the groundwater if we don't
16 remove it.

17 The source material originally was the
18 solvents that the PerkinElmer facility used. Once it
19 was spilled onto the ground, it mixed into the soil.

20 Even if we were able to clean up the plume,
21 more groundwater will move into the area and will
22 contact that source material and will continue to
23 generate a groundwater plume.

24 The ultimate goal is to remove that source.
25 It will be gone once the source is gone. If we don't

1 get the source, the plume will remain. There's an
2 additional amount of work that we need to do at the site
3 to determine exactly where this source material is so
4 that we can treat it or render it so it cannot move
5 anymore so it will not continue to contaminate the
6 groundwater.

7 That will be, you know, an additional
8 process that will involve additional soil samples,
9 potentially additional sampling wells on the Missouri
10 Metals facility itself, et cetera.

11 So the work that we have been doing and the
12 work we're going to continue to do in the work under the
13 tasks in this order, it's all to determine how we can
14 best clean up the site in the long-term.

15 In the short-term, we're focusing on the
16 actions that will protect the residents from any
17 unacceptable human health risk. That, so far, has been
18 mainly in the form of indoor air testing and installing
19 the vapor mitigation systems.

20 That's the short-term part that keeps
21 people safe and gives us the time to do the
22 more-detailed analyses and investigations to determine
23 how we can clean this up permanently in the long-term.

24 That's mostly the process of removing the
25 source material that I was discussing a moment ago.

1 Once that source material is removed, the groundwater
2 plume will naturally, over time, disappear.

3 So these are the things that you're
4 probably going to see happening in the neighborhood in
5 the next few months or that you already have seen
6 happening.

7 Obviously, there are five vapor mitigation
8 systems that are already installed and operating. Next
9 week, the PerkinElmer people will be out to take an
10 additional sample of the wells and make sure that
11 they're operating properly and protecting those
12 residents.

13 Because vapor migration into your home is
14 partly controlled by the weather and whether you have
15 your windows open or closed, whether your air
16 conditioner is running or your heater is running, it
17 affects how those vapors will migrate into the homes.

18 So there will be periodic sampling through
19 the ten homes that are currently being sampled
20 throughout the years to see if seasons and how you use
21 your air conditioner and heater affect how those vapors
22 are migrated into your home. Additional samples will
23 be -- or vapor mitigation systems will be installed in
24 homes.

25 The step-out vapor intrusion sampling that

1 I mentioned there is something that we will evaluate
2 once we have the data from the additional soil and soil
3 gas and groundwater investigation that PerkinElmer will
4 start doing in November.

5 And as I said, if those results indicate
6 that additional homes are at risks, we will contact
7 those homeowners to get those homes sampled.

8 And if those samples from those additional
9 homes indicate that there are unacceptable risks in
10 those homes, those homes will also receive the vapor
11 mitigation systems very similar to the ones that are
12 already installed.

13 And, again, in November, you're going to
14 see some drilling rigs and trucks in the neighborhood
15 for installing those monitoring wells, for installing
16 these soil gas sampling points.

17 PerkinElmer will need to get access to
18 certain properties to do that work. And if your
19 property is one where a monitoring well or a soil gas
20 point is planned, I would ask you, you know, to
21 cooperate with them and grant access so we can gather
22 the data that we need to do our investigations.

23 And with that, Belinda, should I turn it
24 back to you or Shawn?

25 MR. GRINDSTAFF: This slide here is very

1 important. I'll probably say this a few more times
2 before we break up here in a little bit: And that is
3 that you have until November 19th. And I know there
4 were a few more people that came in late. So I will
5 tell you, this isn't the end of this tonight.

6 In fact, Belinda told me and reminded me
7 again a few minutes ago that they will be back at the
8 church for further listening posts, as well. If you
9 arrived late, I was explaining that we have several
10 things that we're trying to accomplish tonight.

11 But we don't have a lot of time. But
12 that's something that's really critical. That is, if
13 you would like to talk to Belinda, you can do this
14 formally. You can comment however you want. You can
15 mail it or they'll be back here --

16 MS. YOUNG: E-mail.

17 MR. GRINDSTAFF: Okay. And then they'll
18 have more listening posts and be available here, as
19 well.

20 So if we run out of time tonight and there
21 are more people that wanted to speak, it's okay that
22 you'll have other chances to do that. And, obviously,
23 until November 19th, we'll accept any and all comments
24 and statements and anything else you might have. So I
25 want to make sure we covered that.

1 The other thing, before we go into the
2 questions and comments, in which I'll carry the mic to
3 the person speaking, is a second part that I neglected
4 to mention about this order that is on this fact sheet.
5 I want to read it to you because it's well-worded.
6 Because that is the mission of tonight with this formal
7 part of the meeting.

8 "The EPA will consider all comments
9 received. And it may seek modification or decline to
10 enter into this order if comments received disclose
11 facts or considerations which indicate that the order is
12 within the three Is, inappropriate, improper or
13 inadequate."

14 So with our questions and comments tonight,
15 that's what we're really trying to hone in on, is that
16 question. That is, with this order that's in front of
17 you, do you have any fact or do you want to make any
18 statements that it would be inappropriate, improper or
19 inadequate? That's really the heart of what we're doing
20 now.

21 I had two cards that had names on them, I
22 believe. Then we'll take the mic wherever we may go.
23 It is Maureen Boone. Okay. And we'll start here.

24 And the other thing, if I can ask you, just
25 in the interest of time for everybody's sake, we've got

1 to get in the other group, too. On the church clock
2 here, it's about 7:40. So we probably, one way or the
3 other, need to be done by 8, 8:05. So if you could keep
4 your comments/statements at a minimum, that means more
5 people can talk. And two-and-three part questions,
6 let's see if we can avoid that at the outset.

7 MR. BOONE: And I would just like to say
8 that, you know, the house that -- my grandmother's house
9 at 1914 Chicago Heights at the park, there seems to be
10 cloudy water. I don't know what that was about. It's
11 very cloudy. That's been for over years and decades I
12 can remember. So that's what I had to say.

13 MR. GRINDSTAFF: Thank you. Kim Heggs?

14 MS. HEGGS: My question is: My mom's home
15 has been here for about 40 years, and the basement
16 always leaked because the builders didn't do the
17 foundation properly.

18 So my question is: If the TCE is found in
19 her air at 1401 Werremeyer with the basement always
20 leaking, and it still is, what risk is that?

21 MR. GRAVATT: That's something that we've
22 got some figures on here on these easels in front and
23 back. We can look at them one-on-one and compare the
24 location of that home to where we have information
25 showing the plume is at this point, and maybe answer

1 your question more definitively there.

2 MR. GRINDSTAFF: If you're in my line of
3 sight, I'll come to you.

4 MS. LAMB: With the groundwater flows to
5 the river -- I moved to Olivette. So how do you know
6 that it hasn't been exposed over there? Also, you're
7 testing the land, but what about the people? What is
8 the half-life of the chemicals in the people's bodies?
9 They're not even here now. Some of them have died.

10 MR. GRAVATT: To answer the first part of
11 your question, we're going to compare the location of
12 her grandmother's home to where we know the plume to be
13 at this time.

14 Part of the reason we're doing this
15 additional task with PerkinElmer is to make sure we know
16 fully where this stuff is. We don't have the data to
17 say, "Here's the stuff here." That's the kind of data
18 we need.

19 We're going to take groundwater samples
20 further away from the Missouri Metals facility to find
21 out how far it goes. We'll find out if it goes to the
22 river or where it stops. That's something that we
23 definitely need to find out.

24 MS. LAMB: What are you doing to find out
25 how it's affecting people biologically?

1 MR. GRAVATT: That is a question I'm not
2 prepared to answer. You can ask the toxicologists
3 one-on-one.

4 MR. GRINDSTAFF: We'll have break-out
5 areas. One of the areas will be for environmental
6 areas. The other will be for health questions, how it
7 affects people. So I will advise you to go talk to
8 them.

9 MS. ROBINSON: Regarding the order, is
10 there anything in the order that would allow homeowners
11 to be in contact with the site? Is there any
12 considerations made for them in the order?

13 Because now that the entire -- I mean, this
14 is on the news and everything. Now that the entire
15 St. Louis Metro area knows that this particular
16 neighborhood has a problem, I'm going to have to
17 disclose that when I go to sell my home.

18 If I'm going to have to sell my home, I'm
19 going to need something from the EPA that says that my
20 home is not within that plume area if it, indeed, is
21 not.

22 MR. HOEFER: Is your house now within the
23 plume?

24 MS. ROBINSON: You say it's outside the
25 area.

1 MR. HOEFER: I can't provide legal advice.
2 You're required to disclose any material facts that
3 you're aware of that affect your property. We have a
4 fairly well-delineated area of contamination that we
5 believe the plume is within the Elmwood Park area. If
6 it's outside that area, you have no obligation to
7 disclose anything if you're outside the area of the
8 plume because you're likely not affected by that plume.

9 Again, I'm not giving you specific legal
10 advice, but I think that's kind of a material item I
11 think you could disclose. Because the evidence, there's
12 no information indicating it affects your property at
13 this point.

14 MR. GRINDSTAFF: The first two comments I
15 read had the name. That was beneficial to the court
16 reporter, and so I'm going to ask if you could identify
17 yourself, too. Because the minute you left your
18 cards -- if you could identify yourself.

19 MS. LAMB: My name is Christina Lamb.

20 MS. ROBINSON: Kim Robinson.

21 MR. GRINDSTAFF: Who was next? Okay.
22 We'll start here and then we'll head over there.

23 MS. JEFFRIES: My name is June Jeffries,
24 and I live on Wishart. And the lady who spoke a while
25 ago, she was asking almost the same question I wanted

1 to.

2 Would this effect -- if you want to sell
3 your home, I was told that our property has gone down.
4 I don't know if this is true. But I heard that it did
5 go down. And I know -- well, I don't know.

6 I know in real estate if you try to sell
7 your home, they have to have everything that's there
8 about your home as far as the land and whatever. So who
9 would want to move out here.

10 And I don't believe even after they clean
11 it up, people do not believe that this will be cleaned
12 up. I mean, I'm just going to be honest about it. They
13 really don't.

14 MR. HOEFER: With regard to -- I believe
15 that if you have a mitigation unit in place -- a lot of
16 people have radon units in their house. Vapor
17 intrusion, if you have vapor in your house, that's
18 taking care of the problem.

19 From a practical standpoint, you know, does
20 that reduce the liveability of your home? Probably not.
21 I mean, you have the inconvenience of having -- minimal
22 inconvenience having a unit in your house.

23 Do you have to disclose that? Yes. You
24 likely may have to disclose that. May that scare
25 somebody off? It could. Would that scare somebody off?

1 Frankly, it shouldn't. Your house is the same with that
2 unit in place as with no contamination.

3 We understand. You say superfund and it
4 scares people off. We understand that happens. From
5 the health perspective, we don't think that should be an
6 impediment to people living there.

7 MR. PRUITT: Adolphus Pruitt, NAACP. I
8 have a technical question. I may be able to help those
9 property owners.

10 I know you want to break out into
11 individual groups and have a dialogue with individuals.
12 Would that be part of this record?

13 MR. GRINDSTAFF: Typically, they are more
14 informal, especially with health questions. When we're
15 done with this portion, we would have the court reporter
16 shut down that part. We would have people still be here
17 to talk.

18 MR. PRUITT: I guess my concern is outside
19 of individual health, just this question about the
20 grandmother's health in the plume area and other wards,
21 there may be some dialogue that comes out that addresses
22 the outline that you just read, that addresses the
23 public documents that may be a part of this public
24 record.

25 I'm trying to figure out: When you do this

1 breakout, how does that portion become a part of the
2 public record, especially if somebody is critically
3 sensitive?

4 MR. HOEFER: Unfortunately, some of this is
5 driven by the legal concerns. We're required by law to
6 get comments on the order whether there's any aspect on
7 whether it's inappropriate, inadequate. That is
8 required by law.

9 One of the reasons we have a public
10 availability session is to allow people to ask
11 questions. Some people don't want -- particularly, if
12 we have contamination, if we have a VI unit in their
13 house, they don't want other people necessarily to know
14 that.

15 So we do have a requirement to protect
16 personal information which people don't want revealed in
17 a public setting. So it's intentional on our part.

18 We want the record really to address the
19 statutory requirement. That is, is this order improper
20 or inadequate? And if so, why?

21 MR. PRUITT: Let me give a quick example.
22 Say her grandmother's house turns out to be impacted on
23 the plume area. Well, her grandmother has neighbors.
24 She knows or the grandmother knows, but now the
25 neighbors didn't, nor has that information become a part

1 of the public record? Because public records we would
2 have access to after the comment period, which means
3 they will have a chance to discover that by looking at
4 the end document.

5 I'm just trying to figure out how do we
6 ensure that additional facts that are essential and
7 critical to the residents or their neighbors get to
8 them, even though your purpose was to answer that
9 particular question for that particular home.

10 MR. HOEFER: Let me state this is not the
11 only time to provide comments. That is how we get all
12 of our comments. A lot of people don't want to publicly
13 talk about their situation. They will e-mail their
14 comments.

15 It's incorporated into the record that way.
16 Any comments that are submitted into e-mail or through
17 the mail make it into the record.

18 MR. PRUITT: My second question is: I
19 think that it's essential that this advisory group be
20 formed. In conjunction to that, there really needs to
21 be an independent technical consultant that they can
22 rely on throughout the process to keep them informed and
23 things like that.

24 I know I saw a grant process. Is that a
25 potential source to provide the community that sort of

1 independent voice that they can rely on and converse
2 with in between the meetings?

3 MS. YOUNG: We have resources to help
4 groups, community advisory groups, that can provide
5 technical assistance to help people understand
6 documents, technical documents that they can help
7 interpret those documents.

8 So when groups are formed, we're able to
9 have independent people come and help the community
10 advisory group understand so they can bring those
11 concerns or those issues to the table and serve as the
12 liaison between a community and here.

13 That process would be for comments. This
14 stage right now is on the order.

15 MR. PRUITT: And for those homeowners, if
16 you really have a concern, it would cost some money, but
17 you can always go ahead and get your individual Phase 1,
18 if necessary, Phase 2, environmental study for your
19 home.

20 And that way it would give information that
21 you can give to a buyer to make sure there's no
22 contamination there. And if that information is wrong,
23 that person who provides it, they have a liability
24 situation. So they're going to be fairly thorough in
25 providing that.

1 MR. HOEFER: Let me check these two over
2 here.

3 MS. ESTHERS: My name is Violet Esthers. I
4 understand about you all placing those things to test.
5 In the houses that you place them, will the people be
6 trained on how they're running in case -- I mean, how
7 would you know it's operating correctly, I guess is the
8 question, if you don't know how it's supposed to
9 operate?

10 And then you're saying the stuff will be
11 let out in the air where it's harmless. But as it's
12 coming out, is it harmless if children are around, per
13 se?

14 MR. GRAVATT: The first part of that was
15 about how the homeowner with the systems could maintain
16 them or make sure they're operating properly. The
17 contractors that install those systems are giving
18 homeowners an informational packet that helps them to
19 understand what it's doing and how to make sure that
20 it's operating properly.

21 As far as the gases that are exhausted from
22 this system, whether those are a risk to children, the
23 place that exhausts the vapors from these vapor
24 mitigation systems extends up to the roof line. It's a
25 little bit like a chimney. It does not exhaust below

1 the roof level. It dissipates before it can be breathed
2 by anyone.

3 MS. KNIGHT: My name is Phyllis Knight.
4 I'm also here with the NAACP. I'm also here as a former
5 resident of Elmwood.

6 I want to go back to Adolphus's comments.
7 When we get into breakout group sessions, if a person
8 that has some concerns about their health wants it to be
9 part of public record, do we have that option tonight as
10 well, since you're saying that that part of the program
11 is really off-record? What if we so choose to? Is that
12 possible?

13 MR. GRINDSTAFF: Once the court reporter
14 stops recording, there will be nothing that will be part
15 of the official record of this particular meeting.

16 But you always have the option to send us a
17 comment to say whatever you want to say. If a person
18 wants to disclose that kind of information, they are
19 free to do so.

20 MS. KNIGHT: Well, I certainly understand
21 the need for neighbors and former residents of Elmwood
22 to have some kind of understanding about what others are
23 going through, what they may be experiencing if they so
24 want them to.

25 How do you suggest that that can be done?

1 Knocking door-to-door or something?

2 MR. GRINDSTAFF: As Belinda was describing,
3 that's the function of the community advisory group to
4 get information and get those questions answered. That
5 would be appropriate.

6 MR. GRAVATT: There are lots of ways to do
7 that. This isn't it tonight.

8 MS. YOUNG: After all the comments have
9 been submitted either at this meeting or by e-mail or by
10 mail, all of those comments become a part of the public
11 record so that you can see those comments.

12 This process is one of the ways to comment.
13 You can also submit comments by mail, e-mail, and then
14 that becomes a public record.

15 And that information, any public
16 information, which I didn't emphasize as well earlier,
17 are going to be at all of those locations on the wall
18 posted behind you, those libraries; our website becomes
19 public information. So it will be documented however it
20 comes to us.

21 MR. HOEFER: That's right. At these
22 repositories, all the comments that are made will be put
23 at the repositories. They have three repositories now.

24 We have this order in the repository so
25 it's publicly available. Somebody can go there and get

1 a copy. It's also on our website. As we have received
2 comments, it's going to be a dynamic thing. And
3 throughout the time here working on the site, we will be
4 adding things to the repository. The idea to that is we
5 want to keep the community constantly informed of what
6 we're doing, if that makes sense.

7 MR. GINDSTAFF: Time is ticking. We'll
8 have this person speak, and then there was a gentleman
9 back here who has been holding his hand up a little bit.
10 We'll go over there next. We'll keep going. And keep
11 your comments brief so we can hear more people.

12 MS. STEWART: My name is Deshad Stewart. I
13 grew up in the area. It says that PerkinElmers
14 purchased the property in '88. So you don't know who
15 dumped the bad -- the contamination?

16 MR. GRAVATT: The site has gone through a
17 number of owners since it was first there in the 1950s.
18 It's not clear from the records exactly when this
19 contaminant was all spilled, whether it was spilled at
20 once or whether it was spilled several times over the
21 years. We don't know.

22 We do know that when PerkinElmer purchased
23 the site in '88, they did some checking and found out
24 that this material had been released prior to them
25 buying this.

1 MS. STEWART: And they waited until now to
2 tell us?

3 MR. GRAVATT: They've been working with
4 MDNR before the EPA.

5 MR. BROADUS: Ron Broadus. My wife and I
6 had to have our home tested. We couldn't find anyone to
7 test it because it was going to be a large suit with
8 this. Who do we talk to about having our home tested?

9 MR. HOEFER: We can't recommend any
10 particular vendor. We can't recommend any company.
11 We're not legally allowed to do that. I would imagine
12 any environmental company, any engineering company with
13 the expertise in doing this type of sampling.

14 The fact that it's a superfund site should
15 have no effect on their ability to do testing. I'm kind
16 of puzzled by why somebody would have said that. They
17 would incur no liability for doing it.

18 So you should be able to find in the
19 phonebook in the yellow pages or on the internet, likely
20 nowadays, an environmental company or environmental
21 assessment-type company that would do this type of work.

22 This superfund site should not be an
23 impediment in any way. So I'm kind of puzzled by why
24 somebody would have said that. I would think they would
25 want the business, frankly.

1 We had pointed out that you could get
2 comments on the record tonight. An easy way to do it,
3 sometimes people don't want to get up. We have those
4 blue cards and you all saw them probably when you came
5 in tonight.

6 But feel free to write -- if you want
7 anything in the record that you're not comfortable
8 getting up and talking about, whatever, feel free to
9 write it out on a blue card and leave it with us, leave
10 it with Belinda or Pam back there. We ask that you put
11 your name on it. But we will ensure that we will get
12 that into the public record. That's another way to do
13 it.

14 MS. YOUNG: There's index cards and paper
15 if you want to write something down, for time's sake.

16 MR. GRINDSTAFF: Let me ask a question
17 here. We've got a few minutes to play with.

18 How many people would like to make a quick
19 comment or statement before we break it up? If you kept
20 it absolutely as brief as possible, let's go -- if other
21 people have no strong objection, let's go a few more
22 minutes. We're going to start here and try to
23 methodically move around. Let's go through it very
24 quickly.

25 MS. WEST: My name is Valerie West, and I

1 have a question regarding the cleanup. In the first
2 meeting that you all had, and you had in the Power Point
3 that in 2004 that the company EGG informed you all that
4 their cleanup efforts did not work.

5 I went through this entire document that
6 you are proposing for cleanup. What in this document
7 will give -- states what will happen if this cleanup
8 effort doesn't work again?

9 It took us eight years to find out that
10 first efforts didn't work. What is different in here in
11 these tasks to be performed that's different than what
12 they did before?

13 MR. HOEFER: One thing that's really
14 fundamental and basic and very important is that this
15 does provide for the vapor intrusion. That is the
16 primary exposure that we're concerned with at this
17 point.

18 The groundwater, nobody is in contact with
19 the groundwater. Nobody is drinking the groundwater.
20 Soil contamination may exist at the Missouri Metals
21 facility. We have no reason to expect that people are
22 in contact with that exposure.

23 The major thing we are concerned about is
24 vapor intrusion in people's homes. We are addressing
25 that through this effort.

1 MS. WEST: I understand that. If you stand
2 at the top of Elmridge and you pour water downhill, that
3 water is migrating through. You're saying it's right at
4 the top of the hill, but if I pour a glass of water
5 out, that water is going to run downhill. I am downhill
6 on Elmridge. There is no way you can tell me that
7 stopped at the top of the hill, how large this plume is.

8 MR. HOEFER: This is not -- this
9 contamination does not travel like water -- like a
10 tabletop. I mean, it's a very slow process through the
11 subsurface. So it takes years.

12 We feel like based on the information that
13 we currently have that the contamination in the shallow
14 aquifer is fairly well-defined and is fairly stable.
15 I'm not a geologist. I'm looking at Dan here, that
16 given the clayey nature of the soil, given the very
17 tight nature of the soils, that this is going to move
18 very slowly. Am I somewhat on-point on that?

19 MR. GRAVATT: Yeah. You're somewhat
20 on-point on that. We cannot draw a solid line on a map
21 with the data we have now. Part and parcel is to get
22 the data we need to make that determination.

23 SPEAKER: How long will that take?

24 MS. WEST: Are there going to be provisions
25 for a buyout if these things don't pan out and people

1 want to move? I'm sure there are people who have been
2 here forever and they don't want to stay. Are you going
3 to include anything in this document to include buyouts
4 for people that want to go?

5 MR. HOEFER: We don't think that in terms
6 of like a buyout or anything like that, we don't think
7 that that would be required at all. I mean, right now,
8 we think that the exposures can be addressed through
9 vapor mitigation systems.

10 We are charged by Congress to protect human
11 health and the environment. We think we can adequately
12 do that through the mitigation systems, et cetera. With
13 regard to -- if you think your property is affected, you
14 think it affects the saleability of your property, I'm
15 not going to argue that that might be the case. That's
16 the reality of it.

17 Whether or not your property is any less
18 livable due to contamination, again, it very well may be
19 the case that if you have no vapor intrusion within your
20 residence that there's no reason why somebody can't live
21 there forever. If they have no exposure to
22 contamination, it's not a problem.

23 There's possibly the stigma that people
24 won't want to live in an area where they think there's
25 contamination. We don't get involved with -- if you

1 believe there's a decrease in the value of your
2 property, we don't get involved in that. We have an
3 authority, as the EPA, to protect human health and the
4 environment. We're not charged by Congress to protect
5 property values, if that makes sense.

6 MS. GLENN: My name is Alice Glen. I've
7 resided in Elmwood for 20 years. I first want to say
8 that the people that have gardens, they need to stop
9 eating their food, stop eating from the ground until all
10 this is straightened out.

11 But I also want to know that -- you all are
12 saying this system will work. At what percentage do you
13 think it will work? She just stated that the first
14 effort didn't come through. Okay. Do you all have a
15 track record of this type of mitigation system? Do you
16 have a track record of other areas that you worked in
17 that would let us know about the cleanup process, you
18 know?

19 There are people that are homeowners and
20 then there are other people that rent, you know. And
21 the homeowners need to be treated just like the people
22 that are renting. It should be all the same.

23 MR. GRAVATT: Sure. I think what you are
24 you're confusing what Valerie is talking about with
25 vapor mitigation system. Valerie was talking about

1 stuff done on the Missouri Metals property, at the
2 facility itself to try to destroy the material itself.

3 They tried one particular technology in one
4 fairly short event. That event did not fully destroy
5 the source. So that does not mean that failed,
6 necessarily; it just means that we may have to try other
7 things, as well.

8 Now, the vapor intrusion, the vapor
9 mitigation systems that have been installed on people's
10 homes, those have a great track record and are very
11 reliable.

12 When those are installed, the contractors
13 give the home owners information on how to tell if it's
14 still working. If it stops working, they have a number
15 to call to get it fixed.

16 MR. GRINDSTAFF: This gentleman has been
17 waiting, and then I'm going to take these two. But at
18 8:15, we've got to be wrapped up because we've got that
19 other group that wants to visit privately. So let's see
20 if you can go as quickly as possible. Thank you.

21 MR. RASHID: My name is William Rashid.
22 The question I have is if you have tested ten homes,
23 what percentage of that is the population?

24 MR. GRAVATT: Do you mean how many homes
25 are in the entire neighborhood? I don't know that off

1 the top of my head.

2 MR. RASHID: How many homes are in the
3 neighborhood.

4 MR. GRAVATT: So about 10 percent, some
5 woman is telling me.

6 MR. RASHID: Do you have any idea when
7 those tests will occur?

8 MR. GRAVATT: One thing we can talk about
9 tonight in the breakout sessions is what we can do in
10 this next breakout session that's going to happen in
11 November.

12 There are a couple of figures that show
13 where we plan do the soil gas and monitoring well
14 installations. We'll show you where we think the plume
15 is now and how far outside of that we're going with this
16 first phase of investigation.

17 It does not go to Dielman. We will move
18 outward in steps. When we feel we've found the edge of
19 the contamination, we will stop.

20 MR. RASHID: I have one more statement.
21 One of the ladies stated that we shouldn't be eating
22 from our garden. Is that a true statement?

23 MR. GRAVATT: Again, that's outside my area
24 of expertise. You'll need to talk to some of the
25 toxicology people here.

1 MS. LEWIS: My name is Neva Lewis. I stay
2 right on Elmridge like on top of the hill, or right
3 behind -- or like right on the side of my house is kind
4 of a block off. Water was bubbling out of the ground.
5 I was wondering if that was the chemical coming out of
6 the ground.

7 MR. GRAVATT: I know the area that you're
8 talking about. I've driven by that area a couple of
9 times. That is not related to the contaminant plume.
10 There is some sort of problem with the irrigation
11 system. A person with the Housing Authority is telling
12 me that's a problem with the irrigation.

13 MS. LEWIS: Since I'm kind of close to the
14 place, is my home going to get tested anytime throughout
15 this process that you all are doing the cleanup?

16 MR. GRAVATT: Again, that's not something I
17 can answer right now. But we are collecting additional
18 data that will let us know if homes are at risk. We
19 will contact the homeowners to arrange that sampling.

20 MS. JORDAN-IZAGUIRRE: Can I just answer
21 the garden issue? I'm Denise Jordan-Izaguirre. I'm
22 with the Federal Agency For Toxic Substances and Disease
23 Registry. I'll get that out of the way.

24 There is no reason -- and I just checked
25 with the EPA's toxicologist. There's no reason -- and

1 the state toxicologist. There's no reason you can't
2 garden. VOCs do not get into the root vegetables. They
3 don't get on to the tomatoes. It isn't uptaken. There
4 are some contaminants. But none of them here are the
5 kind that will be uptaken.

6 We've done lots of studies on -- I will
7 tell you to keep growing your vegetables. It's
8 healthier than what you're getting at the store.

9 MR. GRINDSTAFF: This will be the final
10 question. Again, Belinda has said it numerous times:
11 This isn't it. A listening post will go on. You can
12 e-mail. You can mail. Again, if you want things in the
13 public record, you've got a variety of way to do that.
14 This isn't the end tonight.

15 Then we'll have a breakout session.

16 SPEAKER: None of you all live in this
17 area. You're telling us to eat the food. You all don't
18 live here. I would like to know what exactly you all
19 would do.

20 MR. GRINDSTAFF: Let's go ahead. And then
21 we will break up and conversations can continue. We'll
22 have people at different areas. I have one other
23 statement to make.

24 MS. BRANCH: I live on top of Elmridge Road
25 for 43 years. Now, my house has been tested three

1 times. I do not have that system in my house to clean
2 it out, and I would like to know why.

3 MR. GRAVATT: Well, the results from the
4 sampling indicated that you --

5 MS. BRANCH: That I did.

6 MR. GRAVATT: But if it's below the
7 health-based risk level --

8 MS. BRANCH: 9.32. We met with -- I forget
9 what her name is.

10 MR. HOEFER: This is John Frey.

11 MR. FREY: We did meet. You know, the
12 thing is that there is a level that the EPA and the
13 health folks have established that states if you are
14 below this level, that you are okay.

15 We met with Ms. Branch, correct, and I
16 believe we -- I thought we explained that to you when we
17 met with you that your home did not meet the levels that
18 would require a vapor mitigation system.

19 MS. BRANCH: But it was in the elevated
20 level.

21 MR. FREY: It was in a level that was below
22 non-detect.

23 MS. BRANCH: Would you live there?

24 MR. FREY: I mean, all I can say is that it
25 was below the health standard for what we said. I don't

1 have the records in front of me.

2 For a TCE that's .2 micrograms per meter
3 cubed. And PCE is -- I think it's 9.1 micrograms per
4 meter cubed.

5 MR. GRINDSTAFF: All right. Let's go ahead
6 and break up. Some people specifically are requesting
7 this. We want to make sure they've got time before we
8 have to shut down.

9 Let me tell you one more thing besides the
10 fact that this process is ongoing; that is, one of the
11 groups that will be in here, we have environmental, we
12 have health. We also have representatives from
13 PerkinElmer who are here tonight, too.

14 If they would introduce themselves briefly,
15 then you'll know who they are, as well. Then we're
16 going to go ahead and adjourn after this introduction
17 and the court reporter will be finished.

18 MS. WASCO: Good evening. My name is
19 Stephanie Wasco. PerkinElmer is a U.S.-based company.
20 Our headquarters is based in Boston, Massachusetts.
21 We've been operating for approximately 75 years.

22 We're here today so you're able to put a
23 face to PerkinElmer and be able to answer questions
24 after the meeting. I'm here with Tom Zychinski. Tom
25 has been working very closely with MDNR, as well as the

1 EPA. He will be here with me as I'm not a technical or
2 environmental expert.

3 We want to convey that your health and
4 safety is important to us. We're committed to the
5 community. We're committed to staying here and
6 answering your questions. Thank you. And I look
7 forward to speaking with you.

8 MR. GRINDSTAFF: Then the formal part of
9 this meeting for RCRA purposes is now adjourned. We
10 will be moving into the breakout.

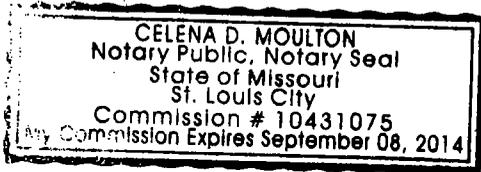
11 (The meeting was adjourned at
12 8:19 p.m.)

13
14
15
16
17
18
19
20
21
22
23
24
25

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

CERTIFICATE OF REPORTER

I, Celena D. Moulton, Registered Professional Reporter and Certified Court Reporter and Notary Public within and for the State of Missouri do hereby certify that the witness whose testimony appears in the foregoing deposition was duly sworn by me; that the testimony of said witness was taken by me to the best of my ability and thereafter reduced to typewriting under my direction; that I am neither counsel for, related to, nor employed by any of the parties of the action in which this deposition was taken, and further, that I am not a relative or employee of any attorney or counsel employed by the parties thereto, nor financially or otherwise interested in the outcome of the action.



Celena D. Moulton
CELENA D. MOULTON, RPR, CCR
License No. 700
Notary Public, within and
for the State of Missouri

My Commission expires September 8, 2014.

Index

<hr/> 1 <hr/>	<hr/> 7 <hr/>	actions	advice	13 33:17
1 33:17	7 11:21	19:9	28:1,10	47:20
10 45:4	75 49:21	20:16	advise	49:5,16
1401 25:19	7:40 25:2	activities	27:7	air 17:21
14th 8:3		9:5	advisory	20:18
18th 8:10	<hr/> 8 <hr/>	adding	32:19	21:15,21
1914 25:9	8 25:3	37:4	33:4,10	25:19
1950s	88 37:14,	additional	36:3	34:11
37:17	23	16:12	affect	Alice 43:6
19th 8:10	8:05 25:3	20:2,7,8,	15:23	allowed
13:2,	8:15 44:18	9 21:10,	21:21	38:11
23:3,23	8:19 50:12	22 22:2,	28:3	ambient
<hr/> 2 <hr/>		6,8 26:15	affected	17:21
2 33:18	<hr/> 9 <hr/>	32:6	28:8	amount
49:2	9.1 49:3	46:17	42:13	20:2
20 6:5	9.32 48:8	address	affecting	analyses
14:12		9:7,9	26:25	20:22
43:7	<hr/> A <hr/>	12:3 16:4	affects	answering
2004 40:3	ability	31:18	21:17	50:6
2nd 8:6	38:15	addressed	27:7	anymore
<hr/> 3 <hr/>	39:20	7:23 42:8	28:12	20:5
30 13:1	absolutely	addresses	42:14	anytime
14:12	39:20	30:21,22	Agency	46:14
<hr/> 4 <hr/>	accept	addressing	6:17	approached
40 14:12	23:23	19:13	46:22	7:21
25:15	access	40:24	aggressive	approval
43 47:25	22:17,21	adequate	9:12	19:6
	32:2	17:2	12:22	approve
	accomplish	adequately	aggressivel	17:3
	23:10	42:11	y 10:2	approving
	accumulate	adjourn	agreed	16:18
	15:15	49:16	9:20	approximate
	Act 7:11,	adjourned	12:11	ly 49:21
	13	50:9,11	agreeing	aquifer
		Administrat	9:5	14:11
		ive 6:21	agreement	41:14
		Adolphus	6:18,22	area
		30:7	7:7 8:6,	14:18,24
		Adolphus's	17 9:4,8,	15:1
		35:6	19	19:21
			ahead 6:1,	

27:15, 20, 25 28:4, 5, 6, 7 30:20 31:23 37:13 42:24 45:23 46:7, 8 47:17	avoid 25:6 aware 28:3 <hr/> B <hr/> back 12:19 16:20 19:11 22:24 23:7, 15 25:23 35:6 37:9 39:10	13:11 biological y 26:25 bit 9:11 15:5 23:2 34:25 37:9 block 46:4 blue 39:4, 9 bodies 26:8 boilerplate 8:20 13:7 Boone 24:23 25:7 Boston 49:20 bottle 15:6 bottom 17:18 Branch 47:24 48:5, 8, 15, 19, 23 break 11:3 23:2 30:10 39:19 47:21 49:6	breathed 35:1 briefly 49:14 bring 33:10 Broadus 38:5 bubbles 15:6 bubbling 46:4 builders 25:16 business 38:25 buyer 33:21 buying 37:25 buyout 41:25 42:6 buyouts 42:3 <hr/> C <hr/> call 10:19 44:15 called 6:21 14:4, 5 card 39:9 cards 24:21 28:18 39:4, 14 care 29:18	carry 10:24 24:2 case 14:17 15:3 34:6 42:15, 19 cetera 8:15, 23 20:10 42:12 chance 6:9 11:8 17:18 32:3 chances 23:22 charged 42:10 43:4 chat 15:19 check 34:1 checked 46:24 checking 37:23 chemical 14:4 16:1 46:5 chemicals 14:10 26:8 Chicago 25:9 children 34:12, 22 chimney 34:25 choose 35:11
areas 27:5, 6 43:16 47:22	bad 37:15 based 41:12 49:20 basement 15:15 17:18 25:15, 19 basic 40:14 basically 17:16 bear 6:2 11:10 began 12:25 Belinda 22:23 23:6, 13 36:2 47:10 beneath 14:19 17:17 beneficial 28:15 benefit	break-out 27:4 breakout 31:1 35:7 45:9, 10 47:15 50:10	care 29:18	
argue 42:15				
arrange 19:5 46:19				
arrived 23:9				
ascertain 9:6				
aspect 10:7 31:6				
assessment- type 38:21				
assistance 33:5				
attorney 6:16				
attorneys 8:4				
authorities 7:8, 14, 15				
authority 43:3 46:11				
availabilit y 31:10				

Christina	46:17	32:25	conjunction	40:20
28:19		33:4,9,12	32:20	41:9,13
church	18:11	36:3 50:5	Consent	42:18,22,
23:8 25:1			6:22	25 45:19
city 11:21	collects	company	Conservatio	continue
14:23	39:7	6:17	n 7:12	19:15,22
city's	Commander	38:10,12,	considerati	20:5,12
14:23	11:25	20,21	ons 24:11	47:21
clayey	comment	40:3	27:12	contractors
41:16	7:3 8:9,	49:19	constantly	34:17
clean	11 9:15	compare	37:5	44:12
13:17,19	12:25	25:23	consultant	controlled
14:8 16:3	13:5	26:11	32:21	21:14
19:20	23:14	Compensatio	contact	conversatio
20:14,23	32:2	n 7:11	19:22	ns 47:21
29:10	35:17	comprehensi	22:6	converse
48:1	36:12	ve 7:10	27:11	33:1
cleaned	39:19	9:8,12	40:18,22	convey
29:11	comments	concentrati	46:19	50:3
cleanup	6:24 7:3	on 17:22	concern	cooperate
40:1,4,6,	8:12	concern	14:21	22:21
7 43:17	12:24	30:18	33:16	copy 37:1
46:15	23:23	concerned	concerned	correct
clear 9:3	24:2,8,	40:16,23	33:16	48:15
37:18	10, 28:14	concerns	concerns	correctly
clock 25:1	31:6	31:5	31:5	34:7
close	32:11,12,	33:11	35:8	cost 33:16
46:13	14,16	conclusion	conclude	couple 7:8
closed	33:13	10:11	19:15	13:4
21:15	35:6	conditioner	20:5	45:12
closely	36:8,10,	21:16,21	contaminate	46:8
49:25	11,13,22	confidentia	d 15:2	court 9:21
cloudy	37:2,11	lity 11:3	17:17	30:15
25:10,11	39:2	confusing	contaminati	35:13
co-leading	comments/	43:24	on 9:7	49:17
11:24	statements	Congress	16:4,11	covered
collect	25:4	7:16	18:25	12:5
16:12	committed	42:10	28:4 30:2	23:25
collecting	50:4,5	43:4	31:12	covers
18:20	common 7:9	community	33:22	13:16
	community	6:8 8:17,	37:15	
	25 9:6	11:2,7		
	11:2,7			

crawl 15:15	12:9	35:18	due 42:18	EGG 40:3
critical 23:12 32:7	decline 24:9	discover 32:3	dumped 37:15	ejected 17:19
critically 31:2	decrease 43:1	discuss 6:24 7:19	duties 12:1	elevated 48:19
cubed 49:3,4	definitivel y 26:1	discussing 20:25	dynamic 37:2	Elmridge 41:2,6 46:2 47:24
<hr/>				
D				
<hr/>				
Dan 6:1 7:18 10:9,13 11:12,19 41:15	describe 16:25	dissipates 35:1	e-mail 23:16 32:13,16 36:9,13 47:12	Elmwood 35:5,21 43:7
data 16:12 18:24 19:10 22:2,22 26:16,17 41:21,22 46:18	describing 36:2	dissolve 14:14	earlier 13:22,23 16:22 17:10 18:2 36:16	emphasize 36:16
date 13:1	Deshad 37:12	dissolved 14:14	enforce 9:21	end 13:1 23:5 32:4 47:14
Dave 12:5 16:15	destroy 44:2,4	document 8:18,19 13:12 17:1 32:4 40:5,6 42:3	enforceable 9:13	engage 9:25
David 6:1, 13,16 11:11 12:21	detail 10:10	documented 36:19	early 9:25	engaged 9:25
days 12:25 13:1	details 9:1	documents 30:23 33:6,7	eat 47:17	engineering 38:12
deal 17:7	determinati on 41:22	door-to- door 36:1	eating 43:9 45:21	ensure 32:6 39:11
decades 25:11	determine 19:2 20:3,13, 22	downhill 41:2,5	edge 45:18	enter 8:14 24:10
decide 16:13 18:3,8	dialogue 30:11,21	draw 41:20	effect 29:2 38:15	entire 27:13,14 40:5 44:25
decided	died 26:9	drilling 22:14	effective 8:7	environment 42:11 43:4
	Dielman 45:17	drinking 14:20,23, 25 16:1 40:19	effort 40:8,25 43:14	environment al 6:16 7:11 27:5
	disappear 21:2	driven 31:5 46:8	efforts 40:4,10	
	disclose 24:10 27:17 28:2,7,11 29:23,24			

33:18	34:25		figures	17:23
38:12,20	exhausted	F	25:22	18:18
49:11	34:21		45:12	50:7
50:2	exhausts	face 49:23	final 47:9	found
EPA 7:19	34:23	facilitator	find 8:17	12:17
8:7 11:25	exist	11:5	26:20,21,	25:18
12:7,13	40:20	facility	23,24	37:23
16:17	expect	19:11,12,	38:6,18	45:18
17:2	40:21	18 20:10	40:9	foundation
18:16	experience	26:20	findings	25:17
19:6 24:8	10:5	40:21	8:21	frankly
27:19	experiencin	44:2	finished	10:4 30:1
38:4 43:3	g 35:23	fact 14:21	49:17	38:25
48:12	expert	23:6	fixed	free 35:19
50:1	50:2	24:4,17	44:15	39:6,8
EPA'S 9:13	expertise	38:14	flows 26:4	Frey 10:9
11:20	38:13	49:10	focusing	11:24
46:25	45:24	facts	20:15	48:10,11,
essential	explain	24:11	folks	21,24
32:6,19	10:10	28:2 32:6	12:24	front 6:10
established	14:22	failed	48:13	12:23
48:13	explained	44:5	food 43:9	24:16
estate	48:16	fairly 7:9	47:17	25:22
29:6	explaining	8:18	forever	49:1
Esthers	23:9	16:22	42:2,21	fully
34:3	exposed	28:4	forget	13:19
evaluate	15:3,25	33:24	48:8	26:16
8:12 22:1	26:6	41:14	form 20:18	44:4
evaporate	exposure	44:4	formal	function
15:5	40:16,22	federal	24:6 50:8	36:3
evening	42:21	9:21	formally	fundamental
6:15	exposures	46:22	23:14	40:14
11:19	42:8	feel 39:6,	format	
49:18	extends	8 41:12	10:15	garden
event 44:4	34:24	45:18	formed	45:22
everybody's	extent 9:6	feet 14:12	32:20	46:21
6:11		field	33:8	47:2
24:25		18:10	forward	gardens
evidence		figure	16:24	43:8
28:11		30:25		
exhaust		32:5		

gas 15:8, 10 19:1 22:3,16, 19 45:13	good 6:15 10:5 11:19 49:18	47:9,20 49:5 50:8	45:10	25:13,14
gases 34:21	grandmother 31:23,24	ground 14:11,12, 16 19:19 43:9 46:4,6	happening 21:4,6	Heights 25:9
gather 22:21	grandmother 's 25:8 26:12 30:20 31:22	groundwater 14:2,14, 15,16,19, 24 15:2, 21 18:25 19:14,15, 21,23 20:6 21:1 22:3 26:4,19 40:18,19	hard 6:6	helps 34:18
generally 16:22	grant 22:21 32:24	group 25:1 32:19 33:10 35:7 36:3 44:19	harmless 34:11,12	hill 41:4, 7 46:2
generate 19:23	Gravatt 10:9 11:19,20 13:4 25:21 26:10 27:1 34:14 36:6 37:16 38:3 41:19 43:23 44:24 45:4,8,23 46:7,16 48:3,6	groups 11:4 30:11 33:4,8 49:11	head 28:22 45:1	history 8:21,22
generically 13:11 17:14			headquarter s 49:20	Hoefer 6:15,16 27:22 28:1 29:14 31:4 32:10 34:1 36:21 38:9 40:13 41:8 42:5 48:10
gentleman 37:8 44:16			health 15:17,23 20:17 27:6 30:5,14, 19,20 35:8 42:11 43:3 48:13,25 49:12 50:3	
geologist 41:15			health- based 12:18 17:9,12 48:7	holding 37:9
geologists 19:7		growing 47:7	healthier 47:8	home 10:17 17:19 21:13,22 25:14,24 26:12 27:17,18, 20 29:3, 7,8,20 32:9 33:19 38:6,8 44:13 46:14 48:17
get all 32:11		guess 30:18 34:7	hear 37:11	
GINDSTAFF 37:7			heard 7:9 29:4	
give 13:24 18:2 31:21 33:20,21 40:7 44:13	great 44:10	GRINDSTAFF 10:13 22:25 23:17 25:13 26:2 27:4 28:14,21 35:13 36:2 44:16	hearing 10:21 11:16	
giving 28:9 34:17		half-life 26:8	heart 24:19	homeowner 34:15
glass 41:4		hand 6:13 37:9	heater 21:16,21	homeowners 22:7 27:10
Glen 43:6		happen 40:7	Heggs	
GLENN 43:6				
goal 19:24				

33:15	20:17	inappropria	33:20, 22	interpreter
34:18	42:10	te 7:4	35:18	11:17
43:19, 21	43:3	24:12, 18	36:4, 15,	interrupt
46:19		31:7	16, 19	10:13
homes	I	include	41:12	introduce
12:18		42:3	44:13	49:14
14:2, 20	idea 37:4	includes	information	introductio
15:22	45:6	13:18	al 34:18	n 49:16
17:8, 11,	identified	18:17	informed	intrusion
24, 25	19:4	inconvenien	32:22	12:16
18:3, 8	identify	ce 29:21,	37:5 40:3	14:3
19:2, 3	28:16, 18	22	install	15:20
21:17, 19,	image	incorporate	16:8	16:4
24 22:6,	11:15	d 32:15	34:17	17:13
7, 9, 10	imagine	incur	installatio	21:25
40:24	38:11	38:17	ns 45:14	29:17
44:10, 22,	imminent	independent	installed	40:15, 24
24 45:2	7:2	32:21	12:16	42:19
46:18	impact	33:1, 9	17:15	44:8
hone 24:15	14:25	index	18:1	investigate
honest	impacted	39:14	21:8, 23	16:3
29:12	31:22	indicating	22:12	investigati
hope 13:5	impaired	28:12	44:9, 12	on 18:13
hour 10:17	11:17	individual	installing	22:3
house	impediment	30:11, 19	18:21	45:16
17:20	30:6	33:17	20:18	investigati
25:8	38:23	individuals	22:15	ons 22:22
27:22	important	30:11	instrument	involve
29:16, 17,	6:8 23:1	indoor	18:10	20:8
22 30:1	40:14	20:18	intense	involved
31:13, 22	50:4	industrial	8:5	7:19, 21
46:3	improper	19:12	intentional	12:7, 12
47:25	7:4	informal	31:17	42:25
48:1	24:12, 18	15:19	interest	43:2
households	31:19	30:14	24:25	involvement
17:8	inadequate	information	interesting	8:22, 23
houses	7:4	18:3, 7	10:7	irrigation
34:5	24:13, 19	25:24	internet	46:10, 12
Housing	31:7, 20	28:12	38:19	issue 14:1
46:11		31:16, 25	interpret	46:21
human			33:7	issues
15:17, 23				

12:3 16:4	45:21	6:6	20 13:18	19:6, 8
33:11	lady 28:24	level	41:23	21:10
item 28:10	Lamb 26:4,	12:19	long-term	23:25
	24 28:19	17:9 35:1	12:2,4	24:17
		48:7,12,	20:14,23	26:15
J	land 26:7	14,20,21	longer	32:17
	29:8	levels	17:21	33:21
Jeffries	language	15:16,23	lot 6:6	34:16,19
28:23	8:20 13:7	17:12	8:20	39:18
John 10:9	large 41:7	48:17	10:14	41:22
11:24	late 18:14	Lewis	13:6	47:23
13:23	23:4,9	46:1,13	17:24	49:7
48:10	law 10:18	liability	18:6,17	makes 37:6
Jordan-	31:5,8	7:11	23:11	43:5
izaguirre	lawn 15:12	33:23	29:15	management
46:20,21	leaked	38:17	32:12	12:10
July 12:8	25:16	liaison	lots 6:4	manager
June 28:23	leaking	33:12	47:6	11:23
	25:20	libraries	Louis	manufacturi
K	learned	36:18	27:15	ng 14:8
	6:5,7	light 10:4	M	map 41:20
Kansas	leave 39:9	listening		Massachuset
11:21,22	left 28:17	23:8,18	machinery	ts 49:20
Kim 25:13	legal 7:1,	47:11	16:7	material
28:20	7,14 9:3	livable	made 7:16	19:14,17,
kind 11:24	13:6	42:18	27:12	22 20:3,
16:7	28:1,9	live 28:24	36:22	25 21:1
26:17	31:5	42:20,24	mail 23:15	28:2,10
28:10	legally	47:16,18,	32:17	37:24
35:18,22	38:11	24 48:23	36:10,13	44:2
38:15,23	legally-	liveability	47:12	Maureen
46:3,13	binding	29:20	main 14:1	24:23
47:5	9:4	living	maintain	MDNR 12:7
Knight	legally-	30:6	34:15	18:15
35:3,20	enforceable	location	major	38:4
Knocking	9:18	25:24	40:23	49:25
36:1	Lenexa	26:11	make 6:2	means 25:4
	11:22	locations	9:22	32:2 44:6
L	lessons	36:17	16:10	meet 6:11
		long 7:19,	17:2	11:2
ladies				48:11,17

MEETING
EPA PUBLIC AVAILABILITY MEETING

October 25, 2012
Index: meeting..official

meeting	21:22	modificatio	31:23, 25
6:24		n 24:9	32:7
10:16, 19	migrates		35:21
24:7	15:11, 14	modified	
35:15		8:15	NAACP 30:7
36:9 40:2	migrating		35:4
49:24	15:22	mom's	Neva 46:1
50:9, 11	41:3	25:14	news 27:14
	migration	moment	non-detect
meetings	21:13	20:25	48:22
6:4, 5	minimal	money	natural
13:22	29:21	33:16	14:16
33:2	minimum	monitoring	naturally
mention	25:4	16:8	21:2
24:4		18:21, 22	nature 7:2
mentioned	minute	22:15, 19	41:16, 17
22:1	28:17	45:13	necessarily
met 13:22	minutes	months	31:13
48:8, 15,	23:7	21:5	44:6
17	39:17, 22	more-	neglected
Metal 14:8	mission	detailed	24:3
	24:6	20:22	negotiate
Metals	Missouri	most-	7:15
14:3	14:3, 7	relevant	negotiated
19:11	19:11	8:24	7:24 8:1
20:10	20:9	move	negotiating
40:20	40:20	14:15, 17	10:5
44:1	44:1	18:18	negotiation
meter	mitigation	19:21	8:2 12:22
49:2, 4	12:16	20:4 29:9	negotiation
methodicall	20:19	39:23	s 8:4 10:3
y 39:23	21:7, 23	41:17	neighborhoo
Metro	22:11	42:1	d 14:12, 23
27:15	29:15	45:17	15:25
mic 10:25	34:24	moved 26:5	18:22
24:2, 22	42:9, 12	moves	21:4
micrograms	43:15, 25	14:16	22:14
49:2, 3	44:9	moving 6:1	27:16
migrate	48:18	11:11	44:25
15:10, 11	mixed	50:10	45:3
21:17	19:19	neighborhoo	ds 12:17
migrated	mixes		neighbors
14:11	14:13		

Olivette 26:5	originally 19:17	30:12,16, 23 31:1, 17,25	20,21 45:25 47:22	23 Perkinelmer 's 8:22
on-point 41:18,20	outline 30:22	34:14 35:9,10, 14 36:10	49:6 people's 15:22	Perkinelmer s 37:13
On-scene 11:25	outset 25:6	41:21 50:8	26:8 40:24	permanent 18:22
one-on-one 13:22 25:23 27:3	outward 45:18	partly 21:14	44:9	permanently 20:23
ongoing 49:10	oversight 16:17 19:6	parts 14:8	percent 45:4	person 10:25
open 21:15	owners 19:4 30:9 37:17	past 14:21	percentage 43:12 44:23	24:3 33:23 35:7,17
operable 9:17	44:13	paying 16:16	performed 9:10,23 13:8,10 40:11	37:8 46:11
operate 34:9	<hr/> P <hr/>	PCE 14:6 49:3		personal 31:16
operating 21:8,11 34:7,16, 20 49:21	p.m. 50:12	penalties 9:19,20, 22	performing 9:2	perspective 10:4 30:5
option 35:9,16	packet 34:18	people 10:14 15:3,25 17:22 20:21 21:9 23:4,21 25:5 26:7,25 27:7 29:11,16 30:4,6,16 31:10,11, 13,16 32:12 33:5,9 34:5 37:11 39:3,18, 40:21 41:25 42:1,4,23 43:8,19,	period 7:25 8:5, 9,12 9:15 12:25 32:2 periodic 21:18 Perkinelmer 6:18 7:6, 22 8:2,14 9:1,5,19, 24,25 12:14,23 13:14 16:3,16, 24 17:3 18:20 19:18 21:9 22:3,17 26:15 37:22 49:13,19,	phase 17:1 33:17,18 45:16 phased 9:10 phases 17:4 phonebook 38:19 Phyllis 35:3 picture 16:5 piece 11:6 pieces 6:3 10:20 pipe 17:20 place 29:15
order 6:22,25 7:2,15, 18,24 8:1 9:11,12 10:11,22 12:5,13, 23 13:16 16:2,21, 23 17:5,6 18:2 20:13 24:4,10, 11,16 27:9,10, 12 31:6, 19 33:14 36:24	pages 38:19 Pam 39:10 pan 41:25 paper 39:14 parcel 41:21 park 25:9 28:5 part 10:22 13:23 14:18 15:20 18:12 20:20 24:3,7 25:5 26:10,14			

30:2	possibly	27:16	protect	pulled
34:5,23	42:23	29:18	20:16	16:6
46:14	post 47:11	42:22	31:15	purchased
placing	posted	46:10,12	42:10	37:14,22
34:4	36:18	process	43:3,4	purpose
plan	posts	12:12	protecting	6:23 32:8
18:13,15	23:8,18	13:25	21:11	purposes
45:13	potential	15:21	Protection	8:16 50:9
planned	32:25	17:16	6:17	pursuant
22:20	potentially	20:8,24	provide	9:4
plans	15:22	32:22,24	28:1	put 7:2
16:18,25	18:10	33:13	32:11,25	18:15
play 39:17	20:9	36:12	33:4	36:22
plume	pour 41:2,	41:10	40:15	39:10
19:14,20,	4	43:17	provided	49:22
23 20:1	Power 40:2	46:15	8:3	puzzled
21:2	practical	49:10	providing	38:16,23
25:25	29:19	productive	33:25	
26:12	prepared	10:2	provisions	Q
27:20,23	27:2	program	41:24	
28:5,8	presentatio	11:20	Pruitt	question
30:20	n 6:20	35:10	30:7,18	24:16
31:23	11:12	project	31:21	25:14,18
41:7	15:20	11:23	32:18	26:1,11
45:14	presentatio	12:2	33:15	27:1
46:9	ns 6:2	projected	public 7:2	28:25
point 19:3	10:21	11:15	8:8,9,11	30:8,19
22:20	pretty 8:5	properly	9:14	32:9,18
25:25	12:11	21:11	12:24,25	34:8
28:13	primary	25:17	30:23	39:16
40:2,17	6:23	34:16,20	31:2,9,17	40:1
pointed	40:16	properties	32:1 35:9	44:22
39:1	prior	22:18	36:10,14,	47:10
points	37:24	property	15,19	questions
22:16	privately	22:19	39:12	10:12,
population	6:10 11:2	28:3,12	47:13	17:24
44:23	44:19	29:3 30:9	publicly	24:2,14
portion	problem	37:14	6:23	25:5 27:6
8:24 9:1	7:22	42:13,14,	32:12	30:14
30:15	15:13	17 43:2,5	36:25	31:11
31:1		44:1	pull 13:12	36:4
		proposing		49:23
		40:6		50:6

quick	reasons	29:14	reporter	21:12
31:21	31:9	42:13	28:16	32:7
39:18	receive	Region	30:15	35:21
quickly	8:12	11:21	35:13	resolutions
6:1 18:18	22:10	Registry	49:17	7:16
39:24	received	46:23	reports	Resource
44:20	24:9,10	related	16:18	7:12
	37:1	14:5 46:9	repositorie	resources
	recommend	released	s 36:22,23	33:3
R	38:9,10	14:10	repository	Response
	record	37:24	36:24	7:11
radon	30:12,24	relevant	37:4	results
29:16	31:2,18	10:6	representat	22:5 48:3
rapidly	32:1,15,	reliable	ives 49:12	revealed
12:11	17 35:9,	44:11	requesting	31:16
Rashid	15 36:11,	relief	49:6	review
44:21	14 39:2,	9:22	require	17:2
45:2,6,20	7,12	rely 32:22	48:18	19:6,8
RCRA 7:12	43:15,16	33:1	required	reviewing
10:19	44:10	remain	13:19	16:17
50:9	47:13	20:1	28:2	rigs 22:14
re-explain	recording	remedial	31:5,8	risk 12:18
10:15	35:14	11:23	42:7	17:8,9,
reach	records	remember	requirement	13,22
15:16	32:1	25:12	31:15,19	18:3
reaching	37:18	reminded	requirement	19:2,4
15:22	49:1	23:6	s 9:9	20:17
read 24:5	Recovery	remove	10:10	25:20
28:15	7:13	19:16,24	requires	34:22
30:22	reduce	removed	16:3	46:18
real 29:6	29:20	21:1	resided	48:7
reality	refer 12:9	removing	43:7	risks
42:16	referenced	20:24	residence	22:6,9
reason	7:7	render	42:20	river
26:14	referral	20:4	residences	26:5,22
40:21	12:15	rent 43:20	14:18	road 19:12
42:20	referred	renting	resident	47:24
46:24,25	16:21	43:22	35:5	Robinson
47:1	18:16	regard	residents	27:9,24
reasonable	regard	9:22	20:16	28:20
10:17	9:22			

role 7:4	38:13	settlements	12:7,10	sort 32:25
Ron 38:5	46:19	8:19	13:14,17,	46:10
	48:4	shallow	20 14:3,8	source
roof 34:24	scare	14:11	16:6	19:14,17,
35:1	29:24,25	41:13	18:16	22,24,25
room	scares	Shawn 7:7	20:2,14	20:1,3,25
11:14,16	30:4	22:24	27:11	21:1
root 47:2	schedule	sheet 24:4	37:3,16,	32:25
run 23:20	12:23		23 38:14,	44:5
41:5	scientists	sheets	22	southeast
running	19:7	14:22	situation	14:17
21:16	seasons	short	32:13	space
34:6	21:20	7:18,23,	33:24	15:15
runs 8:9	section	24,25	slab 17:17	speak
	8:25 13:9	44:4	slide	11:8,12
S	seek 24:9	short-term	22:25	23:21
	sell	20:15,20	slow 41:10	37:8
safe 15:17	27:17,18	show	slowly	SPEAKER
20:21	29:2,6	45:12,14	41:18	41:23
safety	send 35:16	showing	soda 15:6	47:16
50:4	sense 37:6	25:25	soil	speaking
sake 24:25	43:5	shut 30:16	18:11,20	24:3 50:7
39:15	sensitive	49:8	19:1,19	specific
saleability	31:3	side 11:14	20:8	28:9
42:14	September	17:20	22:2,16,	specificall
sample	8:3 10:1	46:3	19 40:20	y 49:6
21:10	12:9,20	sight 26:3	41:16	speed 10:4
sampled	serve	sign 8:8	45:13	spilled
18:23	33:11	9:14,16	soils	14:4
21:19	session	11:17	41:17	37:19,20
22:7	45:10	signature	solid	splitting
samples	47:15	9:14	41:20	12:1
18:11,20	sessions	signed 8:6	solvent	spoke
20:8	35:7 45:9	signing	14:4,5,	11:11
21:22	setting	12:13	13,15	28:24
22:8	31:17	signs 8:7	15:3,8,21	St 27:15
26:19	settlement	similar	solvents	stable
sampling	6:18,21	22:11	14:7,10	41:14
19:5 20:9	10:22	site 8:22	19:18	stage
21:18,25		9:2 11:24	someone's	33:14
22:16			15:14	

stand 41:1	step-out 32:16	tabletop 41:10	telling 12:6 45:5
standard 8:21	21:25		46:11
17:13	Stephanie 49:19	Substances 46:22	47:17
48:25	steps 13:19	subsurface 41:11	ten 17:11
standpoint 29:19	45:18	sucked 17:19	21:19
start 10:14	Stewart 37:12	sucking 17:16	44:22
18:13	38:1	suggest 35:25	terms 42:5
22:4	stigma 42:23	suit 38:7	test 34:4
24:23	stop 43:8,	superfund 7:10	38:7
39:22	9 45:19	11:20	tested 17:11, 25
starts 14:14, 15	stopped 41:7	30:3	18:4, 8
state 32:10	stops 26:22	38:14, 22	38:6, 8
47:1	44:14	supplementa	44:22
stated 43:13	store 47:8	l 18:12	46:14
45:21	story 13:23	supposed 34:8	47:25
statement 39:19	straightene	system 34:22	testing 20:18
45:20, 22	d 43:10	43:12, 15,	26:7
47:23	strong 39:21	25 46:11	38:15
statements 23:24	studies 47:6	48:1, 18	tests 45:7
24:18	study 33:18	systems 12:16	tetrachloro
states 40:7	stuff 13:6	17:13, 25	ethylene 14:6 15:4
48:13	26:16, 17	20:19	Thanksgiving 9:16
statute 7:9	34:10	21:8, 23	thing 6:7
statutory 7:8 9:20	44:1	22:11	11:13
31:19	subject 19:6	34:15, 17,	24:1, 24
stay 42:2	submit 36:13	24 42:9,	37:2
46:1	submitted 33:11	12 44:9	40:13, 23
staying 50:5		T	45:8
		technology 16:13	48:12
		44:3	49:9
			things 12:2, 4
			21:3
			23:10
			32:23
			37:4
			41:25

44:7	14 35:9	31:22	31:12	vendor
47:12	36:7	two-and-	units	38:10
thinks	39:2,5	three 25:5	29:16	VI 31:12
8:17	45:9	two-week	uptaken	Violet
thought	47:14	8:5	47:3,5	34:3
48:16	top 41:2,	type 16:13	upward	visit
ticking	4,7 45:1	18:10	15:11,12	44:19
37:7	46:2	38:13,21	_____	VOCS 47:2
tight	47:24	43:15	V	voice 33:1
41:17	Toxic	types 8:19	_____	_____
time 7:25	46:22	16:9	Valerie	W
18:23	toxicologis	typical	39:25	_____
20:21	t 46:25	8:19	43:24,25	waited
21:2	47:1	Typically	values	38:1
23:11,20	toxicologis	30:13	43:5	waiting
24:25	ts 15:18	_____	vapor	44:17
26:13	19:7 27:2	U	12:15	walked
32:11	toxicology	_____	14:3	10:15
37:3,	45:25	U.s.-based	15:20	wall 36:17
49:7	track	49:19	16:4	wanted
time's	43:15,16	ultimate	17:13	10:15
39:15	44:10	19:24	20:19	23:21
times 23:1	trained	unacceptabl	21:7,13,	28:25
37:20	34:6	e 20:17	23,25	wards
46:9	travel	22:9	22:10	30:20
47:10	41:9	underneath	29:16,17	Wasco
48:1	treat 20:4	14:2,3,16	34:23	49:18,19
title 13:9	treated	understand	40:15,24	water
today	43:21	13:13	42:9,19	14:20,23,
49:22	trichloroet	16:11	43:25	24,25
told 23:6	hylene	30:3,4	44:8	15:5,9
29:3	12:17	33:5,10	48:18	16:1
Tom 49:24	14:5 15:4	34:4,19	vapors	25:10
tomatoes	trucks	35:20	12:18	41:2,3,4,
47:3	22:14	41:1	17:8,	5,9 46:4
tonight	true 29:4	understandi	21:17,21	ways 36:6,
6:12 7:5	45:22	ng 35:22	34:23	12
8:16	turn 22:23	unit	variety	weather
10:15,19	turns	29:15,22	14:9	21:14
23:5,10,		30:2	47:13	
20 24:6,			vegetables	
			47:2,7	

